



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/345,270	06/30/1999	IN CHEOL PARK	CU-1962-RJS	1023

7590 07/02/2002

THOMAS F PETERSON  
LADAS & PARRY  
224 SOUTH MICHIGAN AVENUE  
CHICAGO, IL 60604

EXAMINER

NGUYEN, DUNG T

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 07/02/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No. 09/345,270	Applicant(s) Park et al.
Examiner Dung Nguyen	Art Unit 2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1)  Responsive to communication(s) filed on Jun 18, 2002.
- 2a)  This action is FINAL. 2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

### Disposition of Claims

- 4)  Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above, claim(s) 21-31 is/are withdrawn from consideration.
- 5)  Claim(s) \_\_\_\_\_ is/are allowed.
- 6)  Claim(s) 1-20 is/are rejected.
- 7)  Claim(s) \_\_\_\_\_ is/are objected to.
- 8)  Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on \_\_\_\_\_ is/are a)  accepted or b)  objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11)  The proposed drawing correction filed on \_\_\_\_\_ is: a)  approved b)  disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12)  The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13)  Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a)  All b)  Some\* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \*See the attached detailed Office action for a list of the certified copies not received.
- 14)  Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  
a)  The translation of the foreign language provisional application has been received.
- 15)  Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1)  Notice of References Cited (PTO-892) 4)  Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 5)  Notice of Informal Patent Application (PTO-152)
- 3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_ 6)  Other: \_\_\_\_\_

Art Unit: 2871

## **DETAILED ACTION**

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/18/2002 has been entered.

Applicant's response dated 18/06/2002 has been received and entered.

### ***Claim Rejections - 35 USC § 103***

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claims 1-3, 9, 10 and 15 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' admitted prior art (APA), in view of Ota et al., US Patent No. 5,831,707, and Channin, US Patent No. 4,385,805, as stated in the previous office action.

Regarding claims 1 and 9, Applicants assert that neither Ota et al. nor Channin disclose a reflective liquid crystal display (LCD) using fringe fields and a quarter wave plate sandwiched between a lower substrate and a reflective plate, as claimed in the present invention (response, page 3). The Examiner agreed with Applicants that Ota et al and Channin might not disclose such reflective LCD and a quarter wave plate sandwiched between a lower substrate and a reflective plate. However, APA's figure 1 does disclose such reflective LCD device. In addition,

Art Unit: 2871

APA's figure also disclose a quarter wave plate (17) sandwiched between a polarizing plate (18) and an upper substrate (12) as claimed. Therefore, the modification to the APA met the limitation of claims 1 and 9.

Accordingly, the rejection of claims 1-3, 9, 10 and 15 stand.

3. Claims 1-3, 5-7, 9, 10, 15 and 17-19 stand rejected under 35 U.S.C. 103(a) as being unpatentable over APA, in view of Ota et al., US Patent No. 5,831,707, and Hiroshi, US Patent No. 5,995,186 as stated in the previous office action.

4. Claims 4, 8, 16 and 20 stand rejected under 35 U.S.C. 103(a) as being unpatentable over APA, in view of Ota et al., US Patent No. 5,831,707, and Hiroshi, US Patent No. 5,995,186 , and further in view of Kondo et al., US Patent No. 6,124,915 , as stated in the previous office action.

5. Claims 11-14 stand rejected under 35 U.S.C. 103(a) as being unpatentable over APA, in view of Ota et al., US Patent No. 5,831,707, and Hiroshi, US Patent No. 5,995,186 and further in view of Lee et al., US Patent No. 5,886,762 , as stated in the previous office action.

The rejection of the above claims stand at least for the same reason(s) as stated above.

*Response to Arguments*

6. Applicant's arguments filed 06/18/2002 have been fully considered but they are not persuasive as noted in the above rejection.

Art Unit: 2871

***Conclusion***

7. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Dung Nguyen whose telephone number is (703) 305-0423. The fax phone number for this Group is (703) 746-7730.

Art Unit: 2871

Any information of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-0956.

DN  
06/28/2002

*William L. Sikes*  
William L. Sikes  
*Supervisory Patent Examiner*  
*Group 2871*